

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKewed/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	263265	encod\$4 or cod\$3 or compress\$6) same(enhan c\$6 or correct\$3 or sharp\$4 or defus\$6 or filter\$3	USPA T; US-P GPUB	2004/10/27 16:08	
2	BRS	L2	4457	1 same(calculat\$4 or comput\$6 or measur\$6 or estimat\$6) near10(gain \$3 or decod\$3 or decompress\$3)	USPA T; US-P GPUB	2004/10/27 15:56	
3	BRS	L3	78	2 same(spatial\$3 near10(imag\$3 or fram\$3 or pictur\$3))	USPA T; US-P GPUB	2004/10/27 15:46	
4	BRS	L4	1847	1 same(spatial\$3 near10(imag\$3 or fram\$3 or pictur\$3))	USPA T; US-P GPUB	2004/10/27 16:10	
5	BRS	L5	78	4 same(calculat\$4 or comput\$6 or measur\$6 or estimat\$6) near10(gain \$3 or decod\$3 or decompress\$3)	USPA T; US-P GPUB	2004/10/27 15:57	
6	BRS	L6	409	2 same(gain\$3 near10(comress\$6 or cod\$3 or encod\$3))	USPA T; US-P GPUB	2004/10/27 15:57	
7	BRS	L7	380	6 same(calculat\$4 or comput\$6 or measur\$6 or estimat\$6) near10 gain\$3	USPA T; US-P GPUB	2004/10/27 16:09	
8	BRS	L8	1	7 same(digit\$6 near10 video\$2)	USPA T; US-P GPUB	2004/10/27 15:59	
9	BRS	L10	77	7 same(digit\$6)	USPA T; US-P GPUB	2004/10/27 15:59	
10	BRS	L11	1	10 same( video\$2)	USPA T; US-P GPUB	2004/10/27 15:59	
11	BRS	L9	6	7 same( video\$2)	USPA T; US-P GPUB	2004/10/27 16:09	
12	BRS	L12	1	"5872810".PN.	USPA T	2004/10/27 16:03	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
13	BRS	L13	1	"5754533".PN.	USPA T	2004/10/27 16:03	
14	BRS	L14	9856	(encod\$4 or cod\$3 or compress\$6)same(enhan c\$6 or correct\$3 or sharp\$4 or defus\$6 or filter\$3)same gain\$3	USPA T; US-P GPUB	2004/10/27 16:08	
15	BRS	L15	1026	14 same(calculat\$4 or comput\$6 or measur\$6 or estimat\$6)near10 gain\$3	USPA T; US-P GPUB	2004/10/27 16:09	
16	BRS	L16	25	15 same( video\$2)	USPA T; US-P GPUB	2004/10/27 16:10	
17	BRS	L17	4	15 same(spatial\$3 near10(imag\$3 or fram\$3 or pictur\$3))	USPA T; US-P GPUB	2004/10/27 16:15	

	Error Definition	Er ro rs
1		0
2		0
3		0
4		0
5		0
6		0
7		0
8		0
9		0
10		0
11		0
12		0

	Error Definition	Er ro rs
13		0
14		0
15		0
16		0
17		0

**Results Key:**

**JNL** = Journal or Magazine   **CNF** = Conference   **STD** = Standard

---

**1 Extrinsic Information Transfer Functions: Model and Erasure Channel Properties**

*Ashikhmin, A.; Kramer, G.; tenBrink, S.;*

Information Theory, IEEE Transactions on , Volume: 50 , Issue: 11 , Nov. 2004

Pages:2657 - 2673

IEEE JNL

---

**2 Image Enhancement in the JPEG Domain for People With Vision Impairment**

*Tang, J.; Kim, J.; Peli, E.;*

Biomedical Engineering, IEEE Transactions on , Volume: 51 , Issue: 11 , Nov. 2004

Pages:2013 - 2023

IEEE JNL

---

**3 Enhanced hexagonal search for fast block motion estimation**

*Ce Zhu; Xiao Lin; Chau, L.; Lai-Man Po;*

Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 14 , Issue: 10 , Oct. 2004

Pages:1210 - 1214

IEEE JNL

---

**4 Error-correction and crosstalk avoidance in DSM busses**

*Patel, K.N.; Markov, I.L.;*

Very Large Scale Integration (VLSI) Systems, IEEE Transactions on , Volume: 12 , Issue: 10 , Oct. 2004

Pages:1076 - 1080

IEEE JNL

---

**5 Identification of traitors in algebraic-geometric traceability codes**

*Fernandez, M.; Soriano, M.;*

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] , Volume: 52 , Issue: 10 , Oct. 2004

Pages:3073 - 3077

IEEE JNL

---

**6 Analyzing low-density parity-check codes on partial response channels with erasures using density evolution**

*Tan, W.; Cruz, J.R.;*

Magnetics, IEEE Transactions on , Volume: 40 , Issue: 5 , Sept. 2004

Pages:3411 - 3418

IEEE JNL

Chingfu Lan; Tianli Chu; Narayanan, K.R.; Zixiang Xiong;

IEEE JNL

*Martin, P.A.; Taylor, D.P.;*

IEEE JNL

Popovski, P.; Kocarev, L.; Risteski, A.:

IEEE JN1

Ruihu Li; Xueliang Li;

**IEEE JNL**

Cohen, G.D.; Schaathun, H.G.;

IEEE JNL

*Spence, S.A.;*

IEEE JNL

*Sason, I.; Urbanke, R.;*

IEEE JNL

## 14 Information geometry of turbo and low-density parity-check codes

*Ikeda, S.; Tanaka, T.; Amari, S.;*

Information Theory, IEEE Transactions on , Volume: 50 , Issue: 6 , June 2004

Pages:1097 - 1114

IEEE JNL

---

15 **Closing in on the perfect code [turbo codes]**

*Guizzo, E.;*

Spectrum, IEEE , Volume: 41 , Issue: 3 , March 2004

Pages:36 - 42

IEEE JNL

---